

WEST Search History

DATE: Saturday, April 01, 2006

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		<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L37	(response\$ or reply\$) same (process\$4 same protocol) and (xml or extensible markup language) and l25	0
<input type="checkbox"/>	L36	l1 and l5 and l33	0
<input type="checkbox"/>	L35	L33 and l16	0
<input type="checkbox"/>	L34	L33 and l30	4
<input type="checkbox"/>	L33	(response\$ or reply\$) same (process\$4 same protocol) and (xml or extensible markup language)	2297
		<i>DB=USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L32	L30 and 709/2\$.ccls.	52
<input type="checkbox"/>	L31	L30 and 709/3\$.ccls.	0
<input type="checkbox"/>	L30	(api or application programming interface) and (control\$4 same configuration) and (replac\$4 same command\$)	241
		<i>DB=TDBD; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L29	(api or application programming interface) and (control\$4 same configuration) and (replac\$4 same command\$)	5
		<i>DB=JPAB; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L28	(api or application programming interface) and (control\$4 same configuration) and (replac\$4 same command\$)	0
		<i>DB=USPT; PLUR=YES; OP=ADJ</i>	
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<input type="checkbox"/>	L26	L25 and (rout\$ near3 table\$)	10
<input type="checkbox"/>	L25	(replac\$ same (command line interface or cli))	71
		<i>DB=EPAB; PLUR=YES; OP=ADJ</i>	
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<input type="checkbox"/>	L23	(replac\$ same (command line interface or cli)) and (establish\$4 same connection)	0
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		<i>DB=USPT; PLUR=YES; OP=ADJ</i>	
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<input type="checkbox"/>	L20	L14 and (xml or extensible markup language)	7
<input type="checkbox"/>	L19	L12 and (encod\$ or encrypt\$4) and (rout\$ near3 table\$)	6

<input type="checkbox"/>	L18	L12 and (encod\$ or eccrypt\$4) and (rout\$ near3 table\$)	6
<input type="checkbox"/>	L17	L16 and (rout\$ near3 table\$)	6
<input type="checkbox"/>	L16	(replac\$ same (command line interface or cli)) and (establish\$4 same connection)	14
<input type="checkbox"/>	L15	(replac\$ same (command line interface or cli)) and L14	0
<input type="checkbox"/>	L14	L12 and 709/2\$\$ccls.	16
<input type="checkbox"/>	L13	L12 and 709/3\$\$ccls.	0
<input type="checkbox"/>	L12	L11 and (api or application programming interface) and (control\$4 same configuration)	46
<input type="checkbox"/>	L11	emit\$4 same (response\$ or reply\$) and (process\$4 same protocol)	947
<input type="checkbox"/>	L10	L9 and (api or application programming interface)	7
<input type="checkbox"/>	L9	(xml or extensible markup language) and (control\$ same (network adj router\$))	16
<input type="checkbox"/>	L8	(xml or extensible markup language) and L4	2
<input type="checkbox"/>	L7	xml and L4	2
<input type="checkbox"/>	L6	xml and L5	0
<input type="checkbox"/>	L5	L4 and (api or application programming interface)	30
<input type="checkbox"/>	L4	L3 and (control\$4 same configuration)	66
<input type="checkbox"/>	L3	(manag\$4 same router) and L2	94
<input type="checkbox"/>	L2	command line interface	722
<input type="checkbox"/>	L1	command line interface or cli	2198

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Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 6980993 B2

Using default format because multiple data bases are involved.

L34: Entry 1 of 4

File: USPT

Dec 27, 2005

US-PAT-NO: 6980993

DOCUMENT-IDENTIFIER: US 6980993 B2

TITLE: Schemas for a notification platform and related information services

DATE-ISSUED: December 27, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Horvitz; Eric J.	Kirkland	WA		
Steckler; Paul A.	Redmond	WA		
Pierce; Shaun D.	Sammamish	WA		
Fang; Lijiang	Sammamish	WA		
Lucovsky; Mark H.	Sammamish	WA		
Wu; Winnie C.	Bellevue	WA		

US-CL-CURRENT: [707/102](#); [707/10](#), [709/217](#), [719/313](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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☐ 2. Document ID: US 6976090 B2

L34: Entry 2 of 4

File: USPT

Dec 13, 2005

US-PAT-NO: 6976090

DOCUMENT-IDENTIFIER: US 6976090 B2

TITLE: Differentiated content and application delivery via internet

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	RMK	Draw D
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☐ 3. Document ID: US 6546419 B1

L34: Entry 3 of 4

File: USPT

Apr 8, 2003

US-PAT-NO: 6546419

DOCUMENT-IDENTIFIER: US 6546419 B1

TITLE: Method and apparatus for user and device command and control in a network

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INNOV	Drawings
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☐ 4. Document ID: US 6466971 B1

L34: Entry 4 of 4

File: USPT

Oct 15, 2002

US-PAT-NO: 6466971

DOCUMENT-IDENTIFIER: US 6466971 B1

TITLE: Method and system for device to device command and control in a network

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	INNOV	Drawings
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Term	Documents
(30 AND 33) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	4
(L33 AND L30) . PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD.	4

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<input type="checkbox"/>	L35	L33 and l16	0
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	<i>DB=JPAB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L28	(api or application programming interface) and (control\$4 same configuration) and (replac\$4 same command\$)	0
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<input type="checkbox"/>	L25	(replac\$ same (command line interface or cli))	71
	<i>DB=EPAB; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L24	(replac\$ same (command line interface or cli))	1
<input type="checkbox"/>	L23	(replac\$ same (command line interface or cli)) and (establish\$4 same connection)	0
	<i>DB=TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L22	(replac\$ same (command line interface or cli)) and (establish\$4 same connection)	0
	<i>DB=USPT; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L21	L20 and L1	0
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<input type="checkbox"/>	L17	L16 and (rout\$ near3 table\$)	6

<input type="checkbox"/>	L16	(replac\$ same (command line interface or cli)) and (establish\$4 same connection)	14
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<input type="checkbox"/>	L14	L12 and 709/2\$\$ccls.	16
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<input type="checkbox"/>	L2	command line interface	722
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1 [XML security: Certificate validation service using XKMS for computational grid](#)



Namje Park, Kiyoun Moon, Sungwon Sohn

 October 2003 **Proceedings of the 2003 ACM workshop on XML security**

Publisher: ACM Press

Full text available: pdf(7.01 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A computational grid is a hardware and software infrastructure capable of providing dependable, consistent, pervasive, and inexpensive access to high-end computational resource. There are many ways to access the resources of a computational grid, each with unique security requirements and implications for both the resource user and the resource provider. Current Grid security Infrastructure using PKI based on SSO. But open grid service Security Infrastructure in Global Grid Forum(GGF) will exten ...

Keywords: GSI, XKMS, XML, XML security, certificate validation, grid, key management, security

2 [Business-to-business interactions: issues and enabling technologies](#)

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

 May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**,
 Volume 12 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(558.34 KB)

 Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

3 [Extending Java for high-level Web service construction](#)



Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach

November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 25 Issue 6**Publisher:** ACM PressFull text available: pdf(947.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We incorporate innovations from the <bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis**4** Certificate-based authorization policy in a PKI environment

Mary R. Thompson, Abdelilah Essiari, Srilekha Mudumbai

November 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 4**Publisher:** ACM PressFull text available: pdf(233.63 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The major emphasis of public key infrastructure has been to provide a cryptographically secure means of authenticating identities. However, procedures for authorizing the holders of these identities to perform specific actions still need additional research and development. While there are a number of proposed standards for authorization structures and protocols such as KeyNote, SPKI, and SAML based on X.509 or other key-based identities, none have been widely adopted. As part of an effort to us ...

Keywords: Public key infrastructure, XML, digital certificates**5** Requirements for and evaluation of RMI protocols for scientific computing

Madhusudhan Govindaraju, Aleksander Slominski, Venkatesh Choppella, Randall Bramley, Dennis Gannon

November 2000 **Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)****Publisher:** IEEE Computer SocietyFull text available: pdf(306.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
 [Publisher Site](#)

Distributed software component architectures provide a promising approach to the problem of building large scale, scientific Grid applications. Communication in these component architectures is based on Remote Method Invocation (RMI) protocols that allow one software component to invoke the functionality of another. Examples include Java remote method invocation (Java RMI) and the new Simple Object Access Protocol (SOAP). SOAP has the advantage that many programming languages and component ...

Keywords: Distributed computing, software component systems, communication protocols, RMI, Java, SOAP**6** The <bigwig> project

Claus Brabrand, Anders Møller, Michael I. Schwartzbach



May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available: [pdf\(586.33 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present the results of the <bigwig> project, which aims to design and implement a high-level domain-specific language for programming interactive Web services.

A fundamental aspect of the development of the World Wide Web during the last decade is the gradual change from static to dynamic generation of Web pages. Generating Web pages dynamically in dialog with the client has the advantage of providing up-to-date and tailor-made information. The development of systems ...

Keywords: Interactive Web services, program analysis

7 Workshop on compositional software architectures: workshop report



May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3

Publisher: ACM Press

Full text available: [pdf\(2.91 MB\)](#) Additional Information: [full citation](#), [index terms](#)

8 iMobile EE: an enterprise mobile service platform

Yih-Farn Chen, Huale Huang, Rittwik Jana, Trevor Jim, Matti Hiltunen, Sam John, Serban Jora, Radhakrishnan Muthumanickam, Bin Wei
July 2003 **Wireless Networks**, Volume 9 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(2.90 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

iMobile¹ is an enterprise mobile service platform that allows resource-limited mobile devices to communicate with each other and to securely access corporate contents and services. The original iMobile architecture consists of devlets that provide protocol interfaces to different mobile devices and infolets that access and transcode information based on device profiles. iMobile Enterprise Edition (iMobile EE) is a redesign of the original iMobile architecture to address the security, ...

Keywords: content transcoding, middleware, mobile devices, mobile enterprise, mobile multimedia services

9 Centaurus: an infrastructure for service management in ubiquitous computing environments

Lalana Kagal, Vladimir Korolev, Sasikanth Avancha, Anupam Joshi, Tim Finin, Yelena Yesha
November 2002 **Wireless Networks**, Volume 8 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(553.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the near future, we will see dramatic changes in computing and networking hardware. A large number of devices (e.g., phones, PDAs, even small household appliances) will become computationally enabled. Micro/nano sensors will be widely embedded in most engineered artifacts, from the clothes we wear to the roads we drive on. All of these devices will be (wirelessly) networked using Bluetooth, IEEE 802.15 or IEEE 802.11 for short range connectivity creating pervasive environments. In this age wh ...

Keywords: mobile computing, pervasive computing, service management, ubiquitous

computing

10 Composable ad hoc location-based services for heterogeneous mobile clients

Todd D. Hodes, Randy H. Katz

October 1999 **Wireless Networks**, Volume 5 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(403.18 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 Service-oriented device communications using the devices profile for web services



François Jammes, Antoine Mensch, Harm Smit

November 2005 **Proceedings of the 3rd international workshop on Middleware for pervasive and ad-hoc computing MPAC '05**

Publisher: ACM Press

Full text available:  [pdf\(479.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper outlines the benefits of adopting service-oriented architectures at the level of communications between resource-constrained embedded devices. It focuses on the usage of the *Devices Profile for Web Services* as the underpinning of such architectures for "smart" devices and discusses an early implementation thereof. It further illustrates how "dumb" or "legacy" devices can be integrated using a gatewaying approach.

Keywords: communication infrastructure, device networking, service-oriented architecture, web service

12 Versioning and fragmentation: Managing versions of web documents in a transaction-time web server



Curtis E. Dyreson, Hui-ling Lin, Yingxia Wang

May 2004 **Proceedings of the 13th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  [pdf\(238.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a transaction-time HTTP server, called TTApace that supports document versioning. A document often consists of a main file formatted in HTML or XML and several included files such as images and stylesheets. A change to any of the files associated with a document creates a new version of that document. To construct a document version history, snapshots of the document's files are obtained over time. Transaction times are associated with each file version to record the version ...

Keywords: observant system, transaction time, versioning

13 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our

experience, such tools display repeated occurrences of non-trivial commun ...

14 Annotea: an open RDF infrastructure for shared Web annotations



José Kahan, Marja-Ritta Koivunen

April 2001 **Proceedings of the 10th international conference on World Wide Web**

Publisher: ACM Press

Full text available: [pdf\(271.46 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: RDF, World-Wide Web, XML, XPointer, annotations, metadata, semantic web

15 Employing hierarchical federation communities in the virtual ship architecture



Anthony Cramp, Michael Oudshoorn

January 2002 **Australian Computer Science Communications , Proceedings of the twenty-fifth Australasian conference on Computer science - Volume 4 CRPITS '02**, Volume 24 Issue 1

Publisher: Australian Computer Society, Inc. , IEEE Computer Society Press

Full text available: [pdf\(838.26 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper discusses work underway to develop a framework for the use of hierarchical federation communities as a tool for distributed simulation. The Virtual Ship Project is the application driving the development of the framework. The specific problem within the Virtual Ship Project is one of having to filter unwanted data. It is expected that a hierarchical federation community structure will implicitly provide the necessary data filtering. There are two main goals in establishing hierarchical ...

Keywords: HLA, federation communities, federations of federations, hierarchical federations, virtual ship

16 Software engineering and middleware: a roadmap



Wolfgang Emmerich

May 2000 **Proceedings of the Conference on The Future of Software Engineering**

Publisher: ACM Press

Full text available: [pdf\(1.34 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

17 Session 2: secure Web services: Designing a distributed access control processor for network services on the Web



Reiner Kraft

November 2002 **Proceedings of the 2002 ACM workshop on XML security**

Publisher: ACM Press

Full text available: [pdf\(301.14 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The service oriented architecture (SOA) is gaining more momentum with the advent of network services on the Web. A programmable and machine accessible Web is the vision of many, and might represent a step towards the semantic Web. However, security is a crucial requirement for the serious usage and adoption of the Web services technology. This paper enumerates design goals for an access control model for Web services. It then introduces an abstract general model for Web services components, along ...

Keywords: Web services, XML, access control, security

18 People, places, things: web presence for the real world

Tim Kindberg, John Barton, Jeff Morgan, Gene Becker, Debbie Caswell, Philippe Debaty, Gita Gopal, Marcos Frid, Venky Krishnan, Howard Morris, John Schettino, Bill Serra, Mirjana Spasojevic

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  pdf(248.58 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The convergence of Web technology, wireless networks, and portable client devices provides new design opportunities for computer/communications systems. In the HP Labs' "Cooltown" project we have been exploring these opportunities through an infrastructure to support "web presence" for people, places and things. We put web servers into things like printers and put information into web servers about things like artwork; we group physically related things into places embodied in web servers. Using ...

Keywords: location-aware computing, nomadic computing, physical-virtual linkage, ubiquitous computing, world wide web

19 A framework for QoS-aware software components



Daniel A. Menascé, Honglei Ruan, Hassan Gomaa

January 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 4th international workshop on Software and performance WOSP '04**, Volume 29 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.05 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The next generation of software systems will be highly distributed, component-based, service-oriented, will need to operate in unattended mode and possibly in hostile environments, will be composed of a large number of "replaceable" components discoverable at run-time, and will have to run on a multitude of unknown and heterogeneous hardware and network platforms. This paper focuses on service oriented-architectures in which each component provides a set of interrelated services to other compone ...

20 IP network for emergency service



K. K. A. Zahid, L. Jun, K. Kazaura, M. Matsumoto

October 2004 **Proceedings of the 3rd international conference on Mobile and ubiquitous multimedia MUM '04**

Publisher: ACM Press

Full text available:  pdf(313.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Internet has become the primary means for worldwide communications. In terms of recreation, business, and various imaginative reasons for information distribution it is the most used communication method today. In recent times, it is a big issue of how we can make the best use of Internet in an emergency period. The goal of this paper is to ensure Internet's best effort services to help during emergencies without any major changes in existing technology. Here, we present a system architecture th ...

Keywords: LIS, REN, i-PSAP, location information

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1 [XML security: Certificate validation service using XKMS for computational grid](#)



Namje Park, Kiyong Moon, Sungwon Sohn

October 2003 **Proceedings of the 2003 ACM workshop on XML security**

Publisher: ACM Press

Full text available: [pdf\(7.01 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A computational grid is a hardware and software infrastructure capable of providing dependable consistent, pervasive, and inexpensive access to high-end computational resource. There are many ways to access the resources of a computational grid, each with unique security requirements and implications for both the resource user and the resource provider. Current Grid security Infrastructure using PKI based on SSO. But open grid service Security Infrastructure in Global Grid Forum(GGF) will exten ...

Keywords: GSI, XKMS, XML, XML security, certificate validation, grid, key management, security

2 [Business-to-business interactions: issues and enabling technologies](#)

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: [pdf\(558.34 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

3 [Extending Java for high-level Web service construction](#)



Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach

November 2003 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 25 Issue 6

Publisher: ACM Press

Full text available:  pdf(947.02 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We incorporate innovations from the <bigwig> project into the Java language to provide high-level features for Web service programming. The resulting language, JWIG, contains an advanced session model and a flexible mechanism for dynamic construction of XML documents, in particular XHTML. To support program development we provide a suite of program analyses that at compile time verify for a given program that no runtime errors can occur while building documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

4 [Certificate-based authorization policy in a PKI environment](#)



Mary R. Thompson, Abdelilah Essiari, Srilekha Mudumbai

November 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 4

Publisher: ACM Press

Full text available:  pdf(233.63 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The major emphasis of public key infrastructure has been to provide a cryptographically secure means of authenticating identities. However, procedures for authorizing the holders of these identities to perform specific actions still need additional research and development. While there are a number of proposed standards for authorization structures and protocols such as KeyNote SPKI, and SAML based on X.509 or other key-based identities, none have been widely adopted. As part of an effort to us ...

Keywords: Public key infrastructure, XML, digital certificates

5 [Requirements for and evaluation of RMI protocols for scientific computing](#)

Madhusudhan Govindaraju, Aleksander Slominski, Venkatesh Choppella, Randall Bramley, Dennis Gannon

November 2000 **Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)**

Publisher: IEEE Computer Society

Full text available:  pdf(306.83 KB) 

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

[Publisher Site](#)

Distributed software component architectures provide a promising approach to the problem of building large scale, scientific Grid applications. Communication in these component architectures is based on Remote Method Invocation (RMI) protocols that allow one software component to invoke the functionality of another. Examples include Java remote method invocation (Java RMI) and the new Simple Object Access Protocol (SOAP). SOAP has the advantage that many programming languages and component ...

Keywords: Distributed computing, software component systems, communication protocols, RMI, Java, SOAP


6 [The <bigwig> project](#)



Claus Brabrand, Anders Møller, Michael I. Schwartzbach

May 2002 **ACM Transactions on Internet Technology (TOIT)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available:  pdf(586.33 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present the results of the <bigwig> project, which aims to design and implement a high-level domain-specific language for programming interactive Web services.

A fundamental aspect of the development of the World Wide Web during the last decade is the gradual change from static to dynamic generation of Web pages. Generating Web pages dynamically in dialog with the client has the advantage of providing up-to-date and tailor-made information. The development of systems ...

Keywords: Interactive Web services, program analysis

7 Industrial sessions: beyond relational tables: Garlic: a new flavor of federated query processing for DB2



Vanja Josifovski, Peter Schwarz, Laura Haas, Eileen Lin

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available: [pdf\(1.05 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In a large modern enterprise, information is almost inevitably distributed among several database management systems. Despite considerable attention from the research community, relatively few commercial systems have attempted to address this issue. This paper describes new technology that enables clients of IBM's DB2 Universal Database to access the data and specialized computational capabilities of a wide range of non-relational data sources. This technology, based on the Garlic prototype deve ...

8 Workshop on compositional software architectures: workshop report



May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3

Publisher: ACM Press

Full text available: [pdf\(2.91 MB\)](#)

Additional Information: [full citation](#), [index terms](#)

9 iMobile EE: an enterprise mobile service platform

Yih-Farn Chen, Huale Huang, Rittwik Jana, Trevor Jim, Matti Hiltunen, Sam John, Serban Jora, Radhakrishnan Muthumanickam, Bin Wei

July 2003 **Wireless Networks**, Volume 9 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(2.90 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

iMobile¹ is an enterprise mobile service platform that allows resource-limited mobile devices to communicate with each other and to securely access corporate contents and services. The original iMobile architecture consists of devlets that provide protocol interfaces to different mobile devices and infolets that access and transcode information based on device profiles. iMobile Enterprise Edition (iMobile EE) is a redesign of the original iMobile architecture to address the security, ...

Keywords: content transcoding, middleware, mobile devices, mobile enterprise, mobile multimedia services

10 Centaurus: an infrastructure for service management in ubiquitous computing environments

Lalana Kagal, Vladimir Korolev, Sasikanth Avancha, Anupam Joshi, Tim Finin, Yelena Yesha
November 2002 **Wireless Networks**, Volume 8 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(553.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the near future, we will see dramatic changes in computing and networking hardware. A large number of devices (e.g., phones, PDAs, even small household appliances) will become computationally enabled. Micro/nano sensors will be widely embedded in most engineered artifacts, from the clothes we wear to the roads we drive on. All of these devices will be (wirelessly) networked using Bluetooth, IEEE 802.15 or IEEE 802.11 for short range connectivity creating pervasive environments. In this age wh ...

Keywords: mobile computing, pervasive computing, service management, ubiquitous computing

11 Composable ad hoc location-based services for heterogeneous mobile clients

Todd D. Hodes, Randy H. Katz
October 1999 **Wireless Networks**, Volume 5 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  [pdf\(403.18 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 Service-oriented device communications using the *devices profile for web services*



François Jammes, Antoine Mensch, Harm Smit
November 2005 **Proceedings of the 3rd international workshop on Middleware for pervasive and ad-hoc computing MPAC '05**

Publisher: ACM Press

Full text available:  [pdf\(479.82 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper outlines the benefits of adopting service-oriented architectures at the level of communications between resource-constrained embedded devices. It focuses on the usage of the *Devices Profile for Web Services* as the underpinning of such architectures for "smart" devices and discusses an early implementation thereof. It further illustrates how "dumb" or "legacy" devices can be integrated using a gatewaying approach.

Keywords: communication infrastructure, device networking, service-oriented architecture, we service

13 Versioning and fragmentation: Managing versions of web documents in a transaction-time web server



Curtis E. Dyreson, Hui-ling Lin, Yingxia Wang
May 2004 **Proceedings of the 13th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  [pdf\(238.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a transaction-time HTTP server, called TTApeche that supports document versioning. A document often consists of a main file formatted in HTML or XML and several included files such as images and stylesheets. A change to any of the files associated with a document creates a new version of that document. To construct a document version history, snapshots of the document's files are obtained over time. Transaction times are associated with each file version to record the version ...


Keywords: observant system, transaction time, versioning

14 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  pdf(4.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

15 Annotea: an open RDF infrastructure for shared Web annotations



José Kahan, Marja-Ritta Koivunen

April 2001 **Proceedings of the 10th international conference on World Wide Web**

Publisher: ACM Press

Full text available:  pdf(271.46 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: RDF, World-Wide Web, XML, XPointer, annotations, metadata, semantic web

16 Employing hierarchical federation communities in the virtual ship architecture

Anthony Cramp, Michael Oudshoorn

January 2002 **Australian Computer Science Communications , Proceedings of the twenty-fifth Australasian conference on Computer science - Volume 4 CRPITS '02, Volume 24 Issue 1**

Publisher: Australian Computer Society, Inc. , IEEE Computer Society Press

Full text available:  pdf(838.26 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper discusses work underway to develop a framework for the use of hierarchical federation communities as a tool for distributed simulation. The Virtual Ship Project is the application driving the development of the framework. The specific problem within the Virtual Ship Project is one of having to filter unwanted data. It is expected that a hierarchical federation community structure will implicitly provide the necessary data filtering. There are two main goals in establishing hierarchical ...

Keywords: HLA, federation communities, federations of federations, hierarchical federations, virtual ship


17 Software engineering and middleware: a roadmap



Wolfgang Emmerich

May 2000 **Proceedings of the Conference on The Future of Software Engineering**

Publisher: ACM Press

Full text available:  pdf(1.34 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 Session 2: secure Web services: Designing a distributed access control processor for network services on the Web



Reiner Kraft

November 2002 **Proceedings of the 2002 ACM workshop on XML security**

Publisher: ACM Press

Full text available:  pdf(301.14 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The service oriented architecture (SOA) is gaining more momentum with the advent of network services on the Web. A programmable and machine accessible Web is the vision of many, and might represent a step towards the semantic Web. However, security is a crucial requirement for the serious usage and adoption of the Web services technology. This paper enumerates design goals for an access control model for Web services. It then introduces an abstract general model for Web services components, along ...

Keywords: Web services, XML, access control, security

19 People, places, things: web presence for the real world

Tim Kindberg, John Barton, Jeff Morgan, Gene Becker, Debbie Caswell, Philippe Debaty, Gita Gopal Marcos Frid, Venky Krishnan, Howard Morris, John Schettino, Bill Serra, Mirjana Spasojevic
October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  pdf(248.58 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The convergence of Web technology, wireless networks, and portable client devices provides new design opportunities for computer/communications systems. In the HP Labs' "Cooltown" project we have been exploring these opportunities through an infrastructure to support "web presence" for people, places and things. We put web servers into things like printers and put information into web servers about things like artwork; we group physically related things into places embodied in web servers. Using ...

Keywords: location-aware computing, nomadic computing, physical-virtual linkage, ubiquitous computing, world wide web


20 A framework for QoS-aware software components



Daniel A. Menascé, Honglei Ruan, Hassan Gomaa

January 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 4th international workshop on Software and performance WOSP '04**, Volume 29 Issue 1

Publisher: ACM Press

Full text available:  pdf(1.05 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The next generation of software systems will be highly distributed, component-based, service-oriented, will need to operate in unattended mode and possibly in hostile environments, will be composed of a large number of "replaceable" components discoverable at run-time, and will have to run on a multitude of unknown and heterogeneous hardware and network platforms. This paper focuses on service oriented-architectures in which each component provides a set of interrelated services to other components ...

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